

Enterprise Computing Solutions - Education Services

TRAINING OFFERING

Sie erreichen uns unter

Arrow ECS GmbH, Elsenheimerstraße 1, 80687 München

Email: training.ecs.de@arrow.com Phone: +49 (0)89 930 99 168



VMware vSphere: Fast Track [V8]

CODE: LÄNGE: PREIS:

VMW VSFT8 40 Hours (5 Tage) €4,250.00

Description

This five-day, extended hour course takes you from introductory to advanced VMware vSphere® 8 management skills. Building on the installation and configuration content from our best-selling course, you will also develop advanced skills needed to manage and maintain a highly available and scalable virtual infrastructure. Through a mix of lecture and hands-on labs, you will install, configure, and manage vSphere 7. You will explore the features that build a foundation for a truly scalable infrastructure and discuss when and where these features have the greatest effect. This course prepares you to administer a vSphere infrastructure for an organization of any size using vSphere 8, which includes VMware ESXiTM 8 and VMware vCenter Server® 8.

Lernziel

By the end of the course, you should be able to meet the following objectives:

- · Install and configure ESXi hosts
- · Deploy and configure vCenter
- Use the vSphere Client to create the vCenter inventory and assign roles to vCenter users
- Configure vCenter High Availability
- Create and configure virtual networks using vSphere standard switches and distributed switches
- Create and configure datastores using storage technologies supported by vSphere
- • Use the vSphere Client to create virtual machines, templates, clones, and snapshots
- Configure and manage a VMware Tools Repository
- • Create content libraries for managing templates and deploying virtual machines
- • Manage virtual machine resource use
- • Migrate virtual machines with vSphere vMotion and vSphere Storage vMotion
- Create and configure a vSphere cluster that is enabled with vSphere High Availability and vSphere Distributed Resource Scheduler
- • Manage the life cycle of vSphere to keep vCenter, ESXi hosts, and virtual machines up to date
- Configure and manage vSphere networking and storage for a large and sophisticated enterprise
- • Use host profiles to manage VMware ESXi host compliance
- • Monitor the vCenter, ESXi, and VMs performance in the vSphere client

Zielgruppe

- • System administrators
- • System engineers

Voraussetzungen

This course has the following prerequisites:

• • System administration experience on Microsoft Windows or Linux operating systems

Inhalt

Course Modules 1 Course Introduction

- · Introductions and course logistics
- Course objectives

2 vSphere and Virtualization Overview

- · Explain basic virtualization concepts
- Describe how vSphere fits in the software-defined data center and the cloud infrastructure
- Recognize the user interfaces for accessing vSphere
- Explain how vSphere interacts with CPUs, memory, networks, storage, and GPUs
- · Install an ESXi host

3 vCenter Management

- Recognize ESXi hosts communication with vCenter
- Deploy vCenter Server Appliance
- Configure vCenter settings
- Use the vSphere Client to add and manage license keys
- Create and organize vCenter inventory objects
- Recognize the rules for applying vCenter permissions
- · View vSphere tasks and events
- · Create a vCenter backup schedule
- Recognize the importance of vCenter High Availability
- Explain how vCenter High Availability works

4 Configure and Manage vSphere Networking

- Configure and view standard switch configurations
- · Configure and view distributed switch configurations
- Recognize the difference between standard switches and distributed switches
- · Explain how to set networking policies on standard and distributed switches

5 Configure and Manage vSphere Storage

- Recognize vSphere storage technologies
- · Identify types of vSphere datastores
- · Describe Fibre Channel components and addressing
- Describe iSCSI components and addressing
- Configure iSCSI storage on ESXi
- · Create and manage VMFS datastores
- Configure and manage NFS datastores
- Discuss vSphere support for NVMe and iSER technologies

6 Deploying Virtual Machines

- · Create and provision VMs
- Explain the importance of VMware Tools
- · Identify the files that make up a VM
- Recognize the components of a VM
- Navigate the vSphere Client and examine VM settings and options
- • Modify VMs by dynamically increasing resources
- Create VM templates and deploy VMs from them
- • Clone VMs
- • Create customization specifications for guest operating systems
- Create local, published, and subscribed content libraries
- · Deploy VMs from content libraries
- • Manage multiple versions of VM templates in content libraries

7 Managing Virtual Machines

- Recognize the types of VM migrations that you can perform within a vCenter instance and across vCenter instances
- • Migrate VMs using vSphere vMotion
- Describe the role of Enhanced vMotion Compatibility in migrations
- • Migrate VMs using vSphere Storage vMotion
- • Take a snapshot of a VM
- Manage, consolidate, and delete snapshots
- Describe CPU and memory concepts in relation to a virtualized environment
- Describe how VMs compete for resources
- Define CPU and memory shares, reservations, and limits
- Recognize the role of a VMware Tools Repository

- Configure a VMware Tools Repository
- · Recognize the backup and restore solution for VMs

8 vSphere Cluster Management

- Use Cluster Quickstart to enable vSphere cluster services and configure the cluster
- View information about a vSphere cluster
- Explain how vSphere DRS determines VM placement on hosts in the cluster
- Recognize use cases for vSphere DRS settings
- · Monitor a vSphere DRS cluster
- · Describe how vSphere HA responds to different types of failures
- Identify options for configuring network redundancy in a vSphere HA cluster
- Recognize the use cases for various vSphere HA settings
- · Configure a cluster enabled for vSphere DRS and vSphere HA
- Recognize when to use vSphere Fault Tolerance
- · Describe the function of the vCLS
- · Recognize operations that might disrupt the healthy functioning of vCLS VMs

9 Managing the vSphere Lifecycle

- Generate vCenter interoperability reports
- · Recognize features of vSphere Lifecycle Manager
- Describe ESXi images and image depots
- Enable vSphere Lifecycle Manager in a vSphere cluster
- • Validate ESXi host compliance against a cluster image and remediate ESXi hosts using vSphere Lifecycle Manager
- • Describe vSphere Lifecycle Manager automatic recommendations
- • Use vSphere Lifecycle Manager to upgrade VMware Tools and VM hardware

10 Network Operations

- Configure and manage vSphere distributed switches
- Describe how VMware vSphere Network I/O Control enhances performance
- • Define vSphere Distributed Services Engine
- Describe the use cases and benefits of vSphere Distributed Services Engine

11 Storage Operations

- Describe the architecture and requirements of vSAN configuration
- · Describe storage policy-based management
- Recognize components in the vSphere Virtual Volumes architecture
- Configure Storage I/O Control

12 ESXi Operations

- • Use host profiles to manage ESXi configuration compliance
- Recognize the benefits of using configuration profiles

13 vSphere Monitoring

- Monitor the key factors that can affect a virtual machine's performance
- Describe the factors that influence vCenter performance
- Use vCenter tools to monitor resource use
- · Create custom alarms in vCenter
- Describe the benefits and capabilities of VMware Skyline
- Recognize uses for Skyline Advisor Pro

Test und Zertifizierung

Attending this course meets the training requirement to achieve the following certification:

- • VMware Certified Professional
- Data Center Virtualization (VCP-DCV)

Kurstermine

Datum	Lokation	Time Zone	Sprache	Туре	Durchführungsgarantie	PREIS
19 Aug 2024	Virtual Classroom		German	Instructor Led Online		€4,250.00
26 Aug 2024	Virtual Classroom		German	Instructor Led Online		€4,250.00
07 Oct 2024	Virtual Classroom		German	Instructor Led Online		€4,250.00
25 Nov 2024	Virtual Classroom	GMT	German	Instructor Led Online		€4,250.00
09 Dec 2024	Virtual Classroom	GMT	German	Instructor Led Online		€4,250.00
09 Sep 2024	Virtual Classroom		German	Instructor Led Online		€4,250.00
21 Oct 2024	Virtual Classroom		German	Instructor Led Online		€4,250.00

Zusätzliche Information

Diese Schulung ist auch als Vor-Ort-Schulung verfügbar. Bitte kontaktieren Sie uns, um mehr zu erfahren.